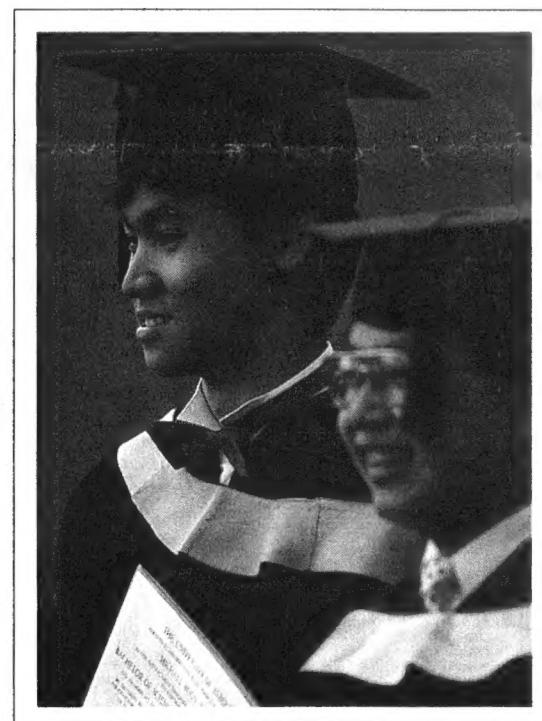
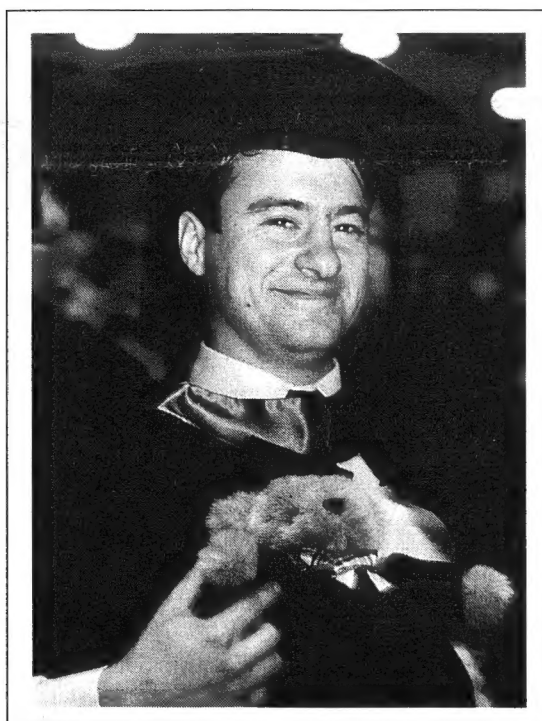
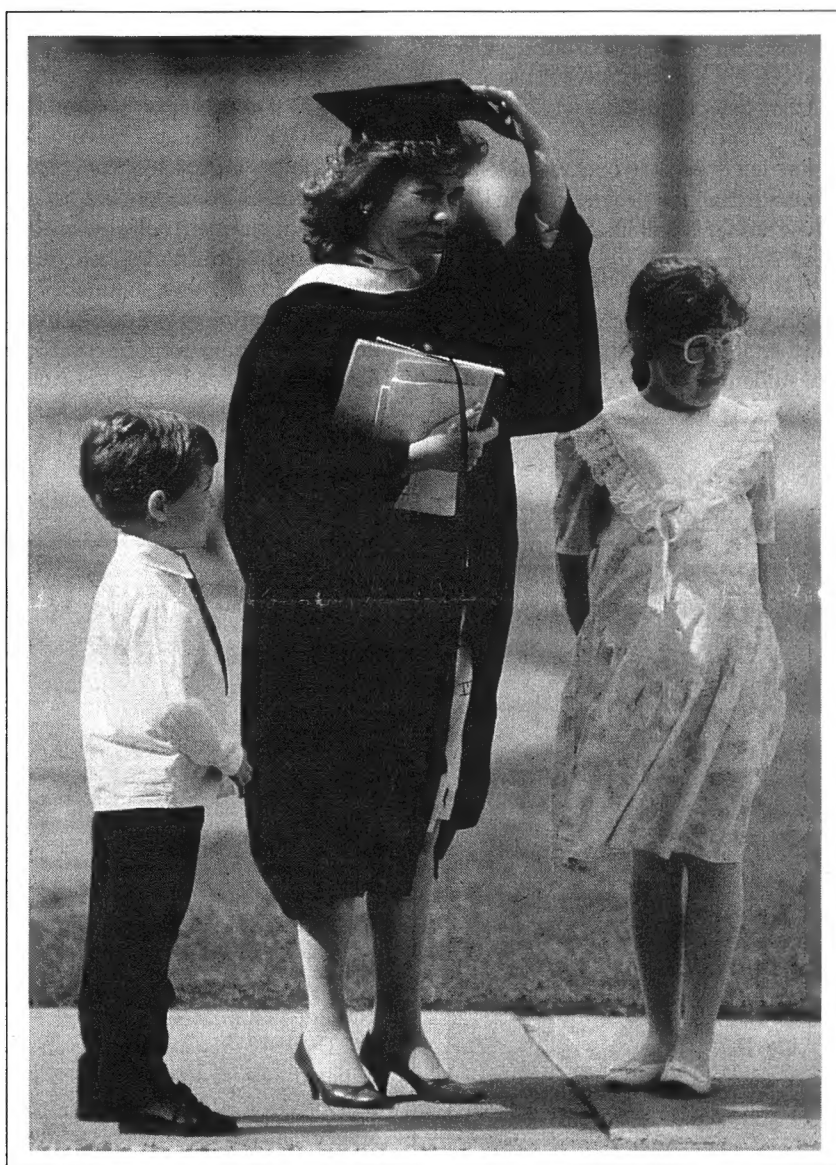


FOLIO

SPECIAL EDITION
UNIVERSITY OF ALBERTA
4 JUNE 1993

83rd • SPRING • CONVOCATION • 1993



In his inaugural convocation address in the fall of 1908, the University of Alberta's first President, Henry Marshall Tory, said, "It thus happens that the problems of national life are being worked out, directly or indirectly, more largely by our universities than elsewhere."

Now, at this institution's 83rd convocation, Dr Tory's spirited sentiment continues to ring true. We can confidently say that the problems of national life continue to be worked out in the laboratories, lecture theatres, classrooms and, yes, the hallways of this great Canadian institution.

This week we celebrate that work. Congratulations, graduands. You're part of a long and noble tradition Henry Marshall Tory would be proud of.

Program only one of its kind in the country

Three students graduating with Master of Music degrees in Choral Conducting

Choral music has deep roots in this city and province, and the Music Department is doing its part to maintain and strengthen those roots.

Three graduates of the Master of Music degree in Choral Conducting—Joy Berg, Thomas Holm and Gerry Paulson—will accept their degrees at Spring Convocation. "We're really delighted for all three students," says Acting Department Chair Leonard Ratzlaff, himself an accomplished director of choral groups.

Holm will pursue doctoral studies at the University of Illinois, supported by a prestigious Canada Council grant and provincial Frederick Haultain Prize. Berg will take up a position at Augustana College, where she'll replace an individual who is going on study leave for a few years. And Paulson will work for Northwest Bible College.

"All three have been very fortunate," says Dr Ratzlaff.

The program—now the country's only active graduate program in choral conducting—first admitted three students in '89. An additional staff member, Debra Ollickala, a

specialist in choral conducting, was hired that same year. Now, the program admits about three new students every year.

"We know we can't take five or six students a year; we don't have the ensembles or the resources," says Dr Ratzlaff, but a nice balance has been found. First, the students, because there aren't great numbers of them, receive very personal, and intensive study, so the quality of their educational experience is very high, he explains. Second, the program is meeting the choral community market's needs.

According to Paulson, who will take over the reins of the music department at Northwest, the U of A's program was great. The establishment of "lab choirs" with which the master's students can work with regularly has resulted in a good program becoming a very good program. "We could practice our skills with a consistent group, make our mistakes and correct them quickly," says Paulson, who decided also to work fulltime while in the program.

Dr Ratzlaff expects two more students will graduate from the program in the fall. Three new students will likely be admitted next year. And now that the program is firmly established in the province, the department is hopeful that it can start recruiting students from further afield. The program's first international student is expected to arrive in the



Acting Department Chair Leonard Ratzlaff

fall. Another is expected from New Brunswick, another from Montreal.

The department will now examine how the program's functioning and determine where changes, if any, should be made. One day the department would like to create a doctoral program in choral conducting, Dr Ratzlaff says.

CONVOCATION SCHEDULE

Monday, 7 June, 2 pm

Students from Arts, Physical Education and Recreation, and Native Studies convocate
Honorary degree recipient: Violet Archer

Tuesday, 8 June, 2 pm

Students from Science, Agriculture and Forestry, and Faculté Saint-Jean convocate
Honorary degree recipient: Hiroshi Kurimoto

Wednesday, 9 June, 2 pm

Students from Law and Education convocate
Honorary degree recipient: Edgar Jones

Thursday, 10 June, 2 pm

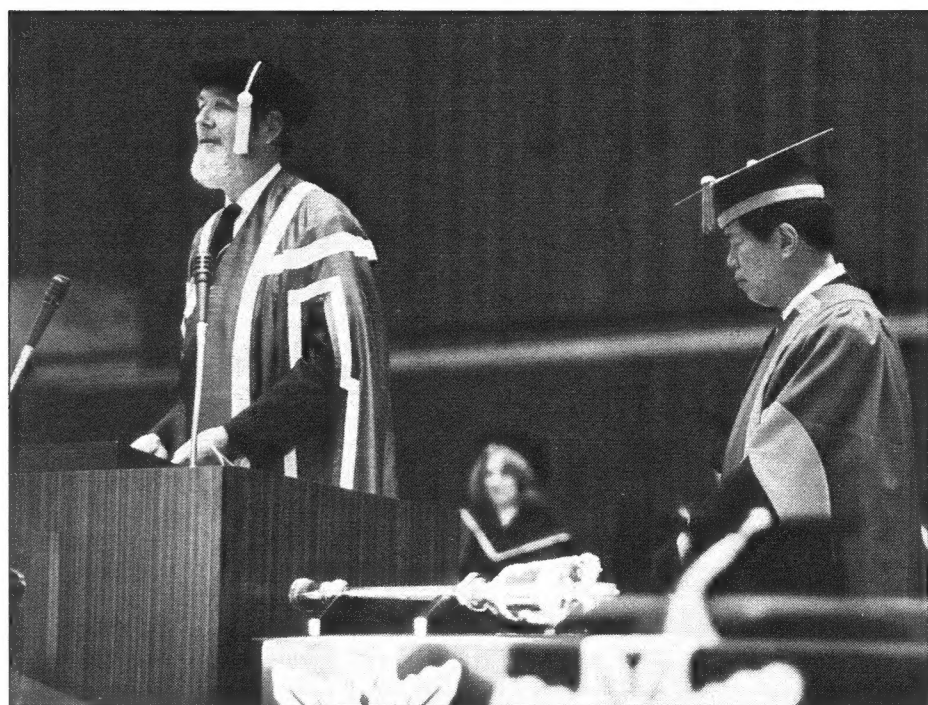
Students from Graduate Studies and Research, Medicine, and Medical Laboratory Science convocate
Honorary degree recipient: Levko Lukianenko

Monday, 14 June, 2 pm

Students from Dentistry, Pharmacy and Pharmaceutical Sciences, Nursing, Home Economics, and Rehabilitation Medicine convocate
Honorary degree recipients: Helen Forrester, James Shaw, Sr

Tuesday, 15 June, 2 pm

Students from Business and Engineering convocate
Honorary degree recipient: Ray Fortune



Recently, our own Chancellor Sandy Mactaggart was invited to give the commencement addresses at Nagoya University of Commerce and Business Administration and Koryo International College (a junior college for young women) in Japan. Those addresses were given in early April. To the right of Chancellor Mactaggart is Nagoya University President Hiroshi Kurimoto. The Chancellor was the guest of President Kurimoto throughout his visit. Nagoya specially commissioned a mace from T Fattorini in England for the commencement ceremonies; the design celebrates the close link that exists between the U of A and Nagoya.

What do you think? That's what graduands are being asked again this year

Survey designed to make life better for students at the University of Alberta

Undergraduate graduands are once again being asked to take the time to fill out a survey form contained in their graduation packages.

The 1992 graduand survey, a pilot project initiated by Vice-President (Academic) John McDonald, was used to determine graduands' level of satisfaction with the education they received at the University.

According to Registrar Brian Silzer, that '92 survey will be used as a bench mark against which future survey results can be compared.

This year, University officials are hopeful students will fill the survey out in even greater numbers. "One of our major objectives this year is to make sure a majority of our students fill out the survey," says the Registrar. A poster campaign, additional signs and other timely reminders are all designed to encourage students to take the 10 to 15 minutes required to complete the form, he explains.

Since the first survey was released, Deans' Council, the Academic Development Committee and individual Faculties have discussed the implications of some of the findings. "As a current evaluation of the University, from the perspective of its most recent graduates, it is a valuable tool in attempting to improve the educational experience," says the Registrar.

Over the longer term, however, University officials are anxious to learn about some of the strengths and weaknesses of the institution.

Using, in part, students' views, policies and practices can be strengthened and improved. And what better group of people to ask about their educational experiences than recent graduates? asks the Registrar.

The survey preceded a recommendation in the recently released Strategic Planning Task Force Report, "Degrees of Freedom", which calls on the Vice-President (Academic) to establish a program of exit surveys of all graduating undergraduate students.

Results of these surveys will be made public and be used to identify strengths and weaknesses in the education programs, states the recommendation. Task force members are hopeful that by providing information on the quality and effectiveness of the University's educational programs, the University will succeed in attracting the most qualified students.

Last year, about 1,500 students responded to the survey, representing a 34 percent response rate. That rate varied considerably across Faculties. While some specific criticisms were levelled at the University, seven out of 10 respondents said if they could choose again, they would still choose to attend the U of A. And three-quarters agreed that graduates can take pride in the U of A.

In response to requests from departments, a few more questions have been added to the survey. People felt that if students identified themselves with the departments that they were most closely associated with during their studies, the information in the survey would be that much more useful, Silzer says.

Since the first survey was conducted, other universities have asked the U of A to send them copies of the survey.

Son of first Japanese graduate to receive honorary degree

Hiroshi Kurimoto's family has had a long association with the University of Alberta

The President of Nagoya University of Commerce and Business Administration in Japan, Hiroshi Kurimoto, will be awarded an honorary Doctor of Laws degree at Spring Convocation, 8 June.

The Kurimoto family has a long association with the University of Alberta: President Kurimoto's father, Yuichi Kurimoto, was the first Japanese national to graduate from the University, and the family was instrumental in establishing and constructing the Kurimoto Japanese Garden at the Devonian Botanic Garden.

President Kurimoto founded the Koryo International College (a junior college for young women) in 1982 and established Japan's first graduate school of management information systems at the Yuichi Memorial School of Business Administration.

He began his career in education in 1960 as a lecturer at Nagoya University and was appointed full professor in 1974. He assumed the presidency of Nagoya University in 1981 following the death of his father, and was the youngest university president in Japan at that time.

The other honorary degree recipients at this, the University of Alberta's 83rd Spring Convocation, are: Violet Archer, Professor Emeritus of Music (7 June); Edmonton novelist

Helen Forrester (14 June); Ray Fortune, former president and CEO of TRLabs (15 June); Edgar Jones, a noted naturalist, wildlife cinematographer and educator (9 June); Levko Lukianenko, Ukraine's first ambassador to Canada (10 June); and James Shaw, Sr, president of Shaw Cablesystems Ltd (14 June).

Forrester and Archer will receive honorary Doctor of Letters degrees and the others will receive honorary Doctor of Laws degrees.

Archer is an internationally acclaimed composer with more than 300 works to her credit. More than 80 of these are published. Her compositions have been broadcast in Canada and abroad and a number are available on recordings. Her music is performed in countries throughout the world.

Forrester is the author of 14 novels and a number of short stories. She is known for her books about life in Liverpool, some of which are autobiographical. Her first novel, *Alien There is None*, was published in 1959 and her recent works include *Yes, Mama* (1987) and *The Lemon Tree* (1990).

Fortune spearheaded TRLabs' growth from a single laboratory seven years ago to three laboratories located in Edmonton, Calgary and Saskatoon. TRLabs is considered the leading pre-competitive telecommunications research and development consortium in Canada.

Jones has spent more than 40 years as a conservationist. He has produced 10 films, with the first, "Arctic Canada," coming in 1959. Four of these films were aimed at increasing awareness of Canada and its natural history.



Hiroshi Kurimoto



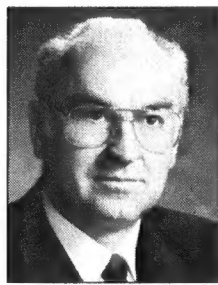
Violet Archer



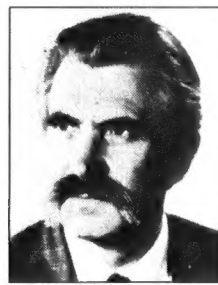
Helen Forrester



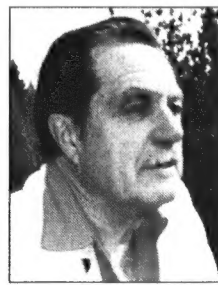
Ray Fortune



Edgar Jones



Levko Lukianenko



James Shaw, Sr

Lukianenko was instrumental in organizing the Ukrainian popular movement, Rukh, to promote democratization and national rights. He was heavily involved in the political group, the Ukrainian Helsinki Union, and was chosen its first leader in 1990 when it became a political party and was renamed the Ukrainian Republican Party. In the same year he was elected to Ukraine's parliament and became the deputy leader of the democratic opposition, the National Council.

Lukianenko became a member of the parliament's constitutional committee in 1991 and helped draft Ukraine's Declaration of Independence of 24 August 1991.

Under Shaw's leadership, Shaw Cablesystems Ltd was granted the first cable television licence in Edmonton (1970) and has become the third largest multi-systems operator in Canada, serving approximately 890,000 subscribers in six provinces.

First native to earn pharmacy degree

Tim Tailfeathers credits his cousin for convincing him to pursue a career in health field

When Tim Tailfeathers was working on a biology degree at the University of Lethbridge, his cousin Darcy suggested he pursue a career in the health field. Tim took that advice, and, as a result, will be awarded a degree in pharmacy at convocation ceremonies next week.

Tailfeathers will be the first student of aboriginal ancestry to earn a degree from the Faculty of Pharmacy and Pharmaceutical Sciences.

Tragically, his cousin Darcy, who was in his third year of medical studies at the University of Alberta, was killed in a car accident in 1987.

In 1989, Tim Tailfeathers, a Blood Indian from Cardston, applied for admission to the Faculty. "I made the right choice," he says, recalling a conversation he had with his cousin about the shortage of native people in the health professions.

But it wasn't easy, says the 33-year-old, who had had some experience working in a pharmacy as a technician before beginning his program. The studying was tough. He lived with his wife, Gina, and their two children at Michener Park, the University's residence for married students. At times, depending on the academic schedule, he would routinely spend between three and six hours a day studying.



Tim Tailfeathers is looking forward to a career as a pharmacist.

He still has one more hurdle, however. He has to pass the licencing examination on 7 June, so he's still studying. But he's confident he'll do well. Meanwhile, he's already found work at a pharmacy in Fort McLeod and expects to serve members of the reserve. The company also owns a pharmacy in Standoff and serves the local hospital, so Tailfeathers expects he'll be working at the different locations.

"The thing I like most about this job is talking to people and helping them," says the soft-spoken native.

Conductor loves delighting Convocation audiences

Ernest Dalwood has a special place in his heart for the University of Alberta

Clarinetist, father of six children, classical music lover, teacher, citizen, grandfather ... those are just a few of Ernest Dalwood's titles. But for many people in this city, Dalwood is that charming man who conducts the band at the University's Spring and Fall Convocations.

He loves it!

Every year, without fail, Dalwood and his 18-member band of woodwind, brass and percussion musicians belt out that distinctive, older-style concert band music, ushering in parents, students and platform guests and closing the ceremony in fine style. The band plays the Royal Anthem, the national anthem, light classical pieces, the U of A's cheer song and spirited pieces such as Edward Elgar's "Pomp and Circumstance."

"People really appreciate my efforts and our music, and I feel tremendously connected to the campus and the Music Department," says the 70-year-old who taught here from 1977 to 1987 and who was the principal clarinetist with the Edmonton Symphony Orchestra from 1954 to 1977.

It's very important to choose the appropriate music for such a ceremonial occasion, he believes. "I see this [Convocation] as the fulfilment of the students' lives."

Dalwood has a long musical history. Born in England, he played with the Coldstream Guards, the BBC Symphony, RCAF Tactical Air Command Band and the Edmonton Symphony. He taught clarinet at this University and conducts The Old Strathcona Town Band.



Maestro Ernest Dalwood leads the University Convocation Band in lively renditions of older-style concert band music.

He's always been an avid listener as well, often attending symphony, opera and ballet performances in Edmonton.

His outstanding musical contributions to the city have earned Dalwood a place in Edmonton's Cultural Hall of Fame. He will be inducted at the 42nd annual "Edmonton's Salute to Excellence" awards ceremony, to be held at the Citadel Theatre on 10 June.

But before that momentous occasion, Dalwood and his band have a gig on their hands. Students, parents and friends can hear the spirited sounds of the Convocation Band on 7, 8, 9, 10, 14 and 15 June.

Medical school graduates first native

Johnny Brisebois, a Mohawk Indian from Kahnawake, Quebec, wants to serve his people

The first native person to successfully complete the University of Alberta's medical school program will be awarded his degree on 10 June.

Johnny Brisebois, a Mohawk Indian from Kahnawake, Quebec, wants to begin his career at a native-controlled health care institution. Brisebois is one of a growing number of natives who are earning health care-related degrees across the country—although there are still relatively few native MDs in Canada.

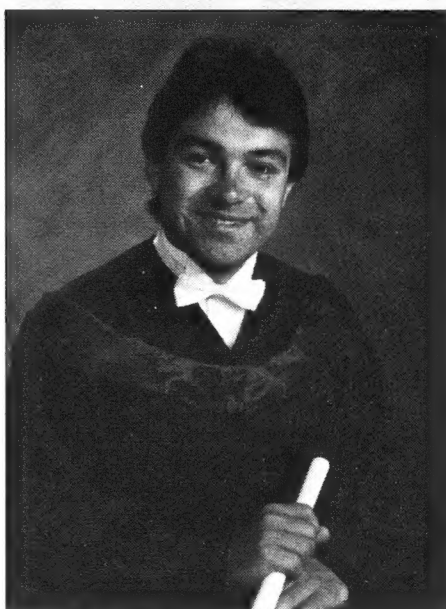
"It's important that we, the native community, begin to produce more and more native health care workers to work in our native-controlled health care facilities," says Brisebois, who points out that the Medical Services Branch has begun to transfer control of health care facilities over to native people.

In fact, the Medical Services Branch Indian and Inuit Health Careers Program has awarded Brisebois two scholarships for outstanding scholastic achievement. "This has been a tremendous help to me in my studies. It's kept me motivated to keep my grades up."

It's been a long road—and a tough one. Brisebois spent four years at the University of Ottawa, where he earned a BSc in biochemistry and an honours degree in nutrition. "I encountered many problems during my first year and a half. Most of it had to do with budgeting my time between hockey and just plain having fun. I simply didn't study enough. Eventually, after a lot of frustration, I improved my work habits and my grades improved."

"My experience has been that getting into the medical program was much harder than the actual work in the program. Don't get me wrong, it's not a cakewalk. You have to be disciplined and put in the hours to do well."

But Brisebois, the recipient of the Faculty's first Darcy Tailfeathers Memorial Award in Medicine, believes there's more to life than



Johnny Brisebois

simply studying and working. He's an avid hockey player, and also plays golf. "I think it's important that you learn to develop—or at least maintain—those interests that you have outside of school."

At least another 10 students who are of aboriginal ancestry are following in Brisebois's footsteps. Next year two native students are expected to earn their MDs: Craig Schacher, a Delaware Indian from Ontario, and Dana Winterburn, a Metis from Quebec.

Four native people are expected to graduate in 1995: Lindsay Crowshoe, a Blackfoot from Alberta, Danika Edmunds, an Inuit from Newfoundland, Jeff Harris, a Metis from Alberta, and Dennis Wardman, a Saulteaux from Saskatchewan.

The Class of '96 will include Nina Desjardins, a Metis from Saskatchewan, Gerry Garrett, a Metis from Alberta, and Annelind Wakegijig, an Odawa from Ontario. So far, Elizabeth Sanderson, a Cree from Ontario, is enrolled and expects to convocate in '97.

It's estimated that there are fewer than 40 physicians in Canada who are of aboriginal ancestry.

Chemical Engineering Department helps graduates find jobs

Graduating Chemical Engineering student Mark Ewanishin has a two-month contract with the Department of Chemical Engineering to develop accurate employment statistics for BSc chemical engineering graduates in the Classes of '92 and '93.

He's also going to compile a book of résumés from students in the Class of '93 which will be sent to prospective employers, and he'll compile a list of potential employers of chemical engineering graduates in the province.

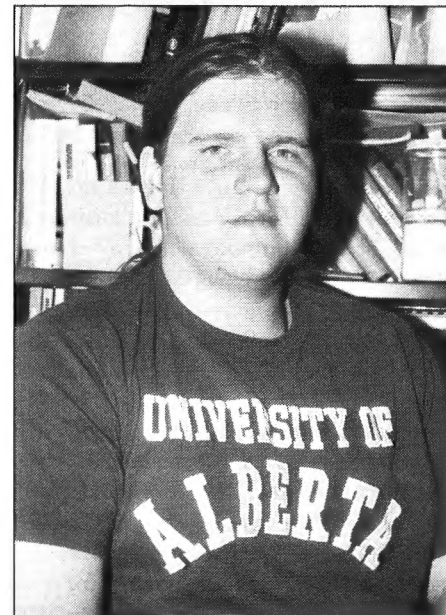
"I think it's a really wise move by the department, and it shows that it's not just interested in educating students but also looking out for their longer term interests. The department is a real leader," says Ewanishin, who starts a permanent job with Weyerhaeuser Canada Ltd in Grande Prairie in the fall.

Ewanishin will also survey potential employers of chemical engineering students to determine the skills they want those graduating students to have.

"As a department offering a professional degree, to some extent we've always kept track of where our graduates go," says Department Chair Murray Gray. "But over the past two or three years hiring by oil and gas companies based in Calgary has pretty well collapsed, and the whole nature of the job market has shifted."

"We feel that our primary responsibility is to educate students, but also to give students some idea of what they'll be facing after they graduate."

One of the objectives of the project will be to see what the job market is like. "It's really tough right now, and there are so many good people without jobs," says Ewanishin. Although the larger companies have stopped hiring, they have increasingly contracted out work that hitherto had been done internally. That means, says Dr Gray, that it's likely in



Mark Ewanishin, a former Engineering Students Society Vice-President (External), has a two-month contract with the Department of Chemical Engineering before he starts his permanent job in the fall in Grande Prairie.

students' interest to knock on some of the smaller firms' doors.

The information Ewanishin is gathering will also help the department respond to employers' needs. "It's important for professors to know what those companies need. We try to direct the curriculum to the realities students face," says Dr Gray, adding that the department's customers are students and the people who employ those students.

According to Ewanishin, 18 of the 48 students who have graduated this year have found jobs. "It seems to take about four to six weeks for students to find permanent jobs." During the province's boom years, students didn't have to put very much effort into job searching. Some would have one or two job offers before they had even graduated.

BCom graduate combines dressage with scholarship



It's not often that Lynne Christensen returns from a dressage or show hack competition empty-handed. She will convocate on 15 June with an anticipated 7.4 grade point average.

Surone is still floating. He has the moves down but they're not yet showable. Still, his self-carriage has really improved and the team aspect is really coming through."

Not surprisingly, Business student Lynne Christensen's words are steeped in practicality and optimism, factors that are essential to her quest, which is to join the ranks of Canadian dressage's top competitors. (She also competes in show hack. The primary difference between the two is that dressage is an individual sport, while in show hack there are a number of riders in the ring at any given time.)

Surone ('Ron' for short), a bay Anglo-Arabian gelding who is boarded at Coleman Farm in Sherwood Park, has been trained by Christensen and her coach, Sharon Merkel-Beattie, for the past two and a half years. Dressage is defined as the art or method of training a horse in obedience and in precision of movement. In layman's terms, it's ballet on horseback and its "rehearsals" are unfailingly concentrated and repetitious. The horse should have "elasticity" in its steps; the rider should be "quiet but effective," Christensen says. For her and Surone, that means four hours of training, five or six days a week. Horse and

rider continually practice movements such as trot half-pass, shoulder-in, canter half-pass and canter flying change (changing canter leads from left to right and vice versa in mid-air).

Routine has been the watchword ever since the two were introduced. "Horses like routine," Christensen says. "Ron' knows my voice, he even knows my footsteps. You have to work for it [success in competition] and ask the horse for it [effort]. There's no such thing as a push-button horse."

Dressage consists of five levels: Basic (I, II, III, IV), Medium (I, II, III, IV), Prix St Georges, Intermediate I and II and Grand Prix (the Olympic level). Christensen currently competes at the Medium I level in western Canada, and says that "when your horse reaches the Medium II/III level [which Surone has just done], you know you have a good horse."

"In terms of school, 80 percent or better is great. In dressage, 58 to 60 percent is a decent ride ... you rarely see anything in the high 60s or above," Christensen explains. She's consistently been around 60 percent and looks to top that soon as a result of participating in a training clinic conducted by Neil Ishoy, a Grand Prix-level rider and coach of Cindy Ishoy, a

member of Canada's bronze medal winning team at the 1988 Olympics.

Now 20 and a rider since the age of seven when her father plunked her down on one of those Shetland ponies that ply a tight circle at amusement parks, she plans to keep on competing and doing whatever she can to increase dressage's popularity locally and nationally. She would, of course, love to compete at the 1996 Olympics in Atlanta, but has all but ruled it out because of a lack of sponsorship.

Christensen says she's often had to push herself to get through "a really intensive schedule," one of going to school, training with Surone and returning home to study. Her friends and professors, she says, are divided on "the thing I've chosen to do. Some people think it's crazy, others think it's neat." Those who question her sanity should note that dressage competition has done wonders for Christensen's confidence. At one time reluctant to assert herself in class, she drew on her experiences competing in front of large crowds to overcome that reticence.

Christensen once aspired to be a chartered accountant, but has had a change of heart and now wants to work in some sort of administrative capacity, "ideally, managing a horse farm."

GFC debates 'Degrees of Freedom'; people invited to make comments

Students happy with recommendation to institute universal course evaluations, but worried about giving Board complete authority to set tuition fees

Student representatives on General Faculties Council say the Strategic Planning Task Force's recommendation that the University establish a universal course evaluation program is a good one. But they had strong concerns about another recommendation contained in the draft report: that Boards of Governors at universities be given authority over all student fees.

At Council's May meeting, members debated the recommendations contained in "Degrees of Freedom", the University of Alberta Strategic Planning Task Force Draft Report, released last month.

Science student Mike Curry said inflation is at three percent, scholarships and student loans are frozen and summer job revenue is not going up—certainly not by 15 percent a year. "I see a very strong threat to accessibility and the ability of students to maintain their studies at the U of A."

Raising fees by more than 15 percent a year would encourage students to go elsewhere, outside of the province, Curry said. "To raise tuition fees by over 15 percent a year—five

times the inflation rate—will not allow a lot of students to continue their education."

What other choice does the University have? responded Arts student and task force member, Peter Cahill. "It can decrease the quality of education, and that's been going on. Another option is to let a lot less people in, but when the demand forecasts are large that's not a realistic option. So I think that raising fees, in conjunction with changing the student loan program, is probably the most realistic alternative."

Task force member and graduate student Pam Ratner said it's difficult as a student to defend higher fees. "On the other hand, although the authority [to raise fees] rests in the Department of Advanced Education, we see the University increasing fees in other ways through services. We have to ensure that this recommendation is tied with the reform of the student loan process, so that repayment schedules are tied to income."

Task force members have recommended that the Government of Alberta a) remove the cap on tuition fees which limits them to 20

percent of the operating budget, b) turn authority for all student fees over to the Boards of the universities, and c) take steps to strengthen the Student Loan Fund while giving serious consideration to income-contingent repayments collected through the federal income tax.

Jeffrey Osborn (Oral Biology) had other concerns. He wondered about the title "Degrees of Freedom." If university programs merely train students for jobs, then they do not increase students' freedom of choice. Quite the reverse, the training very strongly restricts the freedom ... and freedom derives from the educational component of the degree.

"If some of the recommendations are implemented, they will increase training and thereby reduce freedom. Unfortunately, most students, most of the community, most of the provincial government, most employers and far too many of us all think that the main function of this University is to train students for jobs."

Dr Osborn said he was also worried about the effect the recommendation to adopt a universal course evaluation would have on the

University. "If we allow student evaluations to influence course content, we will push many of our degrees closer to apprenticeships. Students are much more interested in being trained for a job than in being educated."

President Paul Davenport said task force members had the more inclusive, broader idea in mind. He pointed out that on the first page of the report, they wrote that a university degree provides the ability to choose the place and focus of your work, freedom to think creatively, freedom to ask and answer questions, freedom to find meaning in your life, freedom to understand the world you live in.

"I think the task force [members] believes that all of those things are things our students are seeking. Yes, the job issue is a big one, and let's face it, it's a bigger one than it was 20 or 30 years ago."

Associate Vice-President (Academic) Lynn Penrod said, "I believe our students are responsible in their evaluations of staff members. Students do not necessarily turn the evaluation process into a popularity contest."

Continued on page 6

For colour and variety, Botanic Garden's 'air show' is the one *Chance for people to experience butterflies in a tropical rainforest setting*

Exquisite child of the air. Alice Freeman Palmer, *The Butterfly*.

Thanks to the efforts of the Devonian Botanic Garden and the Provincial Museum, these exquisite "children of the air" are in our neighbourhood—at the Garden's rainforest greenhouse to be exact.

About 400 butterflies are flying freely among the lush foliage, pools and paths of the 225-square metre greenhouse. "Butterflies at the Garden", which opened late last month, includes species such as the Blue Mountain Swallowtail from Papua New Guinea, the High Archduke from the Philippines and the King Priams Green Birdwing from New Guinea.

According to invertebrate zoologist Albert Finnamore, "The exhibit is an extraordinary opportunity for Albertans to see live tropical butterflies." It's possible visitors will eventually be able to see the entire life cycle of some of these winged creatures. Dr Finnamore is hopeful that plants normally eaten by the creatures can be grown to support the creatures.

"Rarely do museums work together like this," says Dale Vitt, Director of the Devonian Botanic Garden. "This is a perfect example of how the insect expertise at the Provincial Museum can be coupled with the plant expertise here. And when we do this, we're doing something we could never do alone and they're doing something they could never do alone."

"We'll be educating people at all levels. A lot of young people get lots of animal biology in grade school and high school. Rarely do they get plants. Animals are more interesting for them, and they go away without realizing the complex interaction between plants and animals."

At a conference in Montreal, Dr Vitt simply asked Dr Finnamore whether he would be interested in putting together a butterfly house. Dr Finnamore, who was partly responsible for the Provincial Museum's highly successful Bug Room exhibit, realized he simply couldn't do the show at the Provincial Museum because of a lack of facilities.

"What we plan to do here is select several species of butterflies—the butterflies are

shipped in the chrysalis state—and begin rearing them so that all stages will eventually be available, and then people will be able to see the direct interactions between plants and animals. We're also attempting to bring in endangered species, then we can begin to point out the eco-system interaction involved.

"It's actually the destruction of the eco-system that's responsible for endangerment of species; it's not so much the collectors. Adds Dr Vitt, "I would hope that without doing anything more than simply having the butterflies flying around, people would come away with the idea that if you take the plants away, the butterflies will diminish."

Asked whether it was a good time to stage the show, Dr Finnamore said eco-systems around the world are being affected by human society at an unprecedented rate, regardless of whether it's the monarch in Mexico or something we don't know about in the northern boreal forest in Alberta.

It's an ideal fit. The southern temperate plants contained in the greenhouse have been collected over a considerable period of time. The butterflies thrive in the environment. The temperature has been raised slightly, a few plants have been removed and a few trees have been added. "Most of these plants would be from south temperate or sub-tropical regions." As adults, the butterflies eat the plant nectar.

When they begin to breed these butterflies, the eggs are laid on a special plant and that plant is then eaten by the caterpillars. Over the summer and next winter, Botanic Garden staff will be growing these plants from seed in the working greenhouse.

Butterfly houses are found elsewhere in Canada. Several exist in British Columbia and there are a few in Quebec and Ontario. In Alberta, there's a small one at the Calgary zoo.

Visitors will be able to see endangered butterfly species. "These endangered species aren't being collected in the wild," says Dr Vitt. Adds Dr Finnamore, "They're all bred. And that accomplishes two things. Licencing a breeder for endangered species ensures the survival of the species. The breeders can also



Devonian Botanic Garden Director Dale Vitt, left, and invertebrate zoologist Alberta Finnamore examine one of the many butterflies in the exhibit "Butterflies at the Garden".

sell specimens to collectors on the open market, and when they do that they provide perfect specimens—and it's almost impossible to provide perfect specimens from the wild under the best of conditions.

"In other words, the poachers don't make any money."

Dr Finnamore said they'd like to extend people's awareness of local butterflies. "We found that with the Bug Room [at the Provincial Museum], having an exotic attraction really worked well. What we then attempted

to do was take kids into their backyards and show them what they can find.

"There are 160 species of butterflies in Alberta and about 60 can be found in the Edmonton area." The next level of awareness will be to teach kids—and adults—about some of those species.

Meanwhile, visitors to the butterfly house will be able to read a pamphlet explaining the life cycle of butterflies and listing the species in the house. An entomology student will be on hand to respond to questions.

United Way experience a rich one for Sharon Wastle



From the kickoff to the victory celebration, Sharon Wastle lived the life of a United Way Loaned Representative to the full.

In reporting to Vice-President (Finance and Administration) Glenn Harris on her experience as the University's Loaned Representative to the 1992 United Way Campaign, Sharon Wastle said, "In one of my United Way speeches I refer to having closed eyes for many years with respect to the needs in my community. I can assure you they are now wide open."

This dramatic change to her vision was brought about by a week's training period, which included visits to the Edmonton Food Bank and the Glenrose Hospital, and the three months she spent overseeing the campaigns of the *Edmonton Journal*, the Toronto-Dominion Bank, and CNR, the three major corporations to which she was assigned.

Interspersed with these activities were a multitude of United Way nuts and bolts, for example, stuffing envelopes, delivering letters, pledge forms, balloons and sweatshirts, and conducting presentations and canvasser training.

Major events required mandatory attendance: the Leadership Conference at which she

was asked to lead a group exercise; the Breakfast of Champions at the Crowne Plaza and the Countdown Luncheon at which she found herself on stage singing a song a group of Loaned Reps composed and practiced whenever it could.

The days were long and filled with determination to make every campaign perform to its optimum. Once Wastle overcame her initial apprehension her enthusiasm grew together with her personal commitment to the United Way. The United Way was no longer impersonal but could be associated with faces and names.

Having spoken at length with Wastle and the University's earlier Loaned Representatives, Carol Fowlie and Gail Bamber, Harris is convinced that secondment to the United Way is an excellent opportunity for personal and professional development. Wastle is of the same opinion. "My time away [she is Manager of the Telecommunications Division] has been well spent and I have acquired new skills. I plan to put them to good use in both my professional and personal lives.

(As the campaign drew to a close, Wastle contacted her children's school and proposed that she coordinate a community-wide food drive with all proceeds to go to the Food Bank. She received unanimous support from the principal and the Parent Liaison Committee.)

"None of us will forget the work we have done, the fun we had doing it nor the friends we have made. "My involvement with the

United Way has been a positive experience. I now know that even I, as one voice, one individual, can make a difference in both my community and in my workplace.

"This is an experience that does not end when the formalities are over. The benefits are too many to mention. I wish future University Loaned Representatives all the best and sincerely hope they find it as rewarding an experience as I have."

Any one interested in serving as the University's Loaned Representative is asked to get in touch with Vice-President Harris by mid-June.

More dinomania

Since 1971, the Academic Awards Fund maintained by the Canadian Federation of University Women Edmonton has disseminated \$248,000 in bursaries and scholarships to University of Alberta students.

To help it continue in that vein, CFUWE is holding Dinosaur Fair in the Park, Sunday, 6 June, at the Heritage Amphitheatre, Hawrelak Park. The fair will last from 1 to 5 pm; all proceeds will go towards scholarships for U of A students.

The afternoon's events include exhibits, face painting, crafts, games, dinosaur egg painting and refreshments. Guest speaker is Nick Jaffer of the World Dinosaur Tour.

Admission is \$4 for adults, \$2.50 for children and \$10 per family.

SEARCH FOR DEAN OF FACULTY OF GRADUATE STUDIES AND RESEARCH

Applications and nominations are invited for the position of Dean of the Faculty of Graduate Studies and Research. The Faculty administers 74 graduate programs distributed across 71 academic units. Current graduate student enrollment is approximately 4,300. The Dean is the chief executive of the Faculty and chairs the Faculty Council which recommends and reviews policy for the Faculty and its component units. In addition, the Dean oversees the Faculty office which provides extensive student services and monitors all aspects of graduate programs. The Dean of Graduate Studies and Research plays a major role on campus in advocating policies and processes in support of excellence in graduate education and research programs. A position description is available on request.

Candidates should have a demonstrated capacity for leadership, strong academic qualities, and proven administrative ability. The appointment may take effect on 1 January 1994 or at a mutually-agreeable date. Written nominations or applications, accompanied in the latter case by a résumé of qualifications and experience, and the names of three referees, should be submitted by 31 August 1993 to: Dr W John McDonald, Vice-President (Academic), Third Floor, University Hall, University of Alberta, Edmonton, Alberta, Canada T6G 2J9.

GFC *Continued from page 5*

We have been asked by our various publics over a number of years to be accountable for the kind of teaching that we do."

Task force member and Chemistry Professor John Bertie said it wasn't the intent of the task force [members] to accede to business wishes. "At the same time, our graduates go out into the workplace and the minimal requirement for success in the community is that they be reasonably well equipped to handle the workplace."

Science student Sean Andrews said he evaluates professors on how well they have taught courses. "We [students] attend five courses a term and we have a pretty good idea of who's a good teacher."

Dr Osborn said there seems to be an extraordinary resistance in Canada to external examinations. External examiners would best determine how the University's students perform.

President Davenport said, "I think it's fair to say that the task force was very receptive to external tests of the quality of our teaching." One is the students themselves, who are perhaps five years out in the workforce, another is employers and a third is contained in the report's fourth recommendation, which requires the Vice-President (Academic) to report on a regular basis the national standings of those educational programs that are accredited by an external agency or where national exams are given to graduates of the programs.

Comparative Literature Professor Ted Blodgett said the statement in the document that budget decisions will be based on academic priorities and academic performance should be emphasized. "I would suggest the committee put that one in italics so that there is hardly any doubt that that's what the procedure will be."

Vice-President (Research) Martha Piper responded that she couldn't agree more. "I appreciate your interest in underlining it."

Jim Vargo, Acting Dean of the Faculty of Rehabilitation Medicine, said people must ask three questions about the draft report: Do you agree this is where we want to go? If so, what do you see as barriers to getting there? And how might we overcome these barriers? He said it will be important for task force members to hear the answers to these questions.

Noting the task force's prediction that the University would likely have an enrollment of 36,250 by the year 2006, student Jo-Anne Bishop wondered how the University would accommodate those students. Is more housing going to be available? And how can this be effectively accomplished without a substantial financial increase? Will classroom size increase?

President Davenport replied, "I hope it's been clear the last two or three years that whatever happens with our residences, they're going to be self-funding." With regard to academic space, the report calls on the government to increase the University's capital budget (some of that money would come from private funding).

"We would picture the number of faculty expanding along with the number of students," the President said. "We're not pretending for a moment that we could accommodate the additional students we talk about without additional revenues and faculty. The report tries to show where those revenues would come from."

Responding to Vivien Bosley's (Romance Languages) question about selectivity, Vice-President Piper said a university this size and this comprehensive has to have programs in certain fields. Other programs at the undergraduate level are already linked with other provinces. "Saskatchewan is meeting our veterinarian needs and we're meeting their occupational therapy needs, and I think there's going to be more of this kind of structuring on a provincial, regional and national basis.

"At the graduate level, the importance of having a critical mass of people working in an area is probably even more compelling. And the ability to share that expertise across universities and regions is also more likely."

Anne Fanning (Infectious Diseases) said, "What's missing from the document is a sense of leadership. I read it as a response to a downturn, and I think there's an obligation on the part of any institution of higher learning to be a voice for responsible and reasonable direction."

Dr Fanning said, "I'd like to have a sense of whether bigger is better. Philosophically, where do we stand on this issue? Do we think philosophically that student fees should be 30 percent of the entire cost of the University? "It really disturbs me that we're buying into a reality out there, and maybe we will have no choices. But I'm not sure we should buy totally into the practical implications of what industry, society and students want."

President Davenport said the main report contains very little about current budgetary problems. "This is a report about excellence at the U of A. Many task force members felt that we would not have a credible plan for the future if we did not talk about size. There was a strong feeling that the size issue was so important, not only to us, but to our partners in the system, that we needed to talk about it."

Dr Bertie said leadership isn't much use unless it's in context. The Alberta Government is predicting a sizeable increase in demand for university education. "In that context, it is an act of leadership to say 'Look, we can accommodate this and we will do our part. This is the consequence of doing so.'"

Responding to questions about funding, the President said the document assumes that late in this decade, real funding will start to grow with the overall economy. "We do make significant requests for capital funding ... and finally, although we don't estimate the magnitude, we say we do need very significant government help for student loans."

FOLIO

Volume 30 Number 36

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Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. **Classified advertisements:** 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements.

Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 30 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be reprinted with acknowledgment.

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University
of
Alberta

Ed Zemrau appointed Acting Chair of Athletics

Ed Zemrau (Physical Education and Sport Studies) has been appointed Acting Chair of the Department of Athletics for a six-month term beginning 1 July 1993.

He takes over from Dale Schulha, who announced he would no longer serve as Department Chair effective 30 June 1993. Schulha expects to pursue other opportunities within the University.

Professor Zemrau began his University of Alberta career in 1960 as assistant to the Dean in the then Faculty of Physical Education. He served as Director of Athletics from 1963 to 1981, the year in which he was appointed President and CEO of Universiade '83 Edmonton Corporation. He was instrumental in steering Edmonton's successful bid to host Universiade '83 in July 1983.

Professor Zemrau is Vice-President of the International University Sports Federation and was a founding member of the Calgary Olympic Development Association which was created to bid for the 1988 Winter Olympics.

UNIVERSITY MANAGEMENT WORKSHOP '93

There are still a few places available in University Management Workshop '93, which will be held at the Meanook Biological Research Station from 22 to 26 June. Topic: "Designing University 2000." The individual sessions will focus on Continuous Improvement, The University as a Learning Organization, First-year Student Experiences, and Managing/Valuing Diversity. Registration fee: \$275 (includes accommodation, transportation, materials and meals). The fee may be claimed against PEA, HRDF, CPDF, or Tuition Remission by those who are eligible. Interested academic staff and support staff at the administrative level, please call Eva Cherniavsky, 492-4588, before 10 June.

CURRENTS

Vehicle Pool hours

Effective 1 June, the Vehicle Pool hours are: Campus Service Station, 7 am to 4 pm; Edmonton Research Station, 7:30 am to 4 pm. The Administration Office is open from 8 am to 4 pm.

Farewell reception for Bob Busch

Members of the University community are cordially invited to a reception on Tuesday, 22 June, at 4 pm, at University House, in honour of Associate Vice-President Bob Busch. Dr Busch completes his term as Associate Vice-President (Research) on 30 June. Friends and colleagues are invited to join President Davenport and Vice-President Piper in wishing Bob and BJ well.

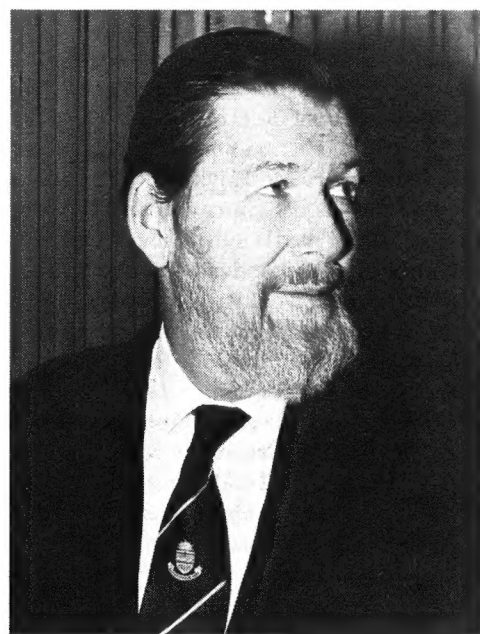
Those wishing to mark the occasion with a gift are invited to send contributions to Katharine Moore, Executive Assistant, Office of the Vice-President (Research), at 3-12B University Hall. Cheques may be made payable to the Bob Busch Gift Fund.

Summer Youth University

Junior and senior high school students can learn more about university by participating in Summer Youth University. There are two, two-week sessions in July. Classes are taught weekdays from 9 am to 4 pm. SYU is coordinated by the Faculty of Extension. Call 492-5597 for information and registration packages.

Chancellor's road show opportunity for people in smaller communities—and Senators—to learn from one another

Sandy Mactaggart says there are still some misconceptions out there



Chancellor Sandy Mactaggart

When Chancellor Sandy Mactaggart, a few Senators and University officials visited Coronation recently, an older man suggested there were too many international students at the University of Alberta. However, a younger person, a potential U of A student, perhaps, wanted to know what the University offered that would prepare her for a future of doing business in Japan.

The juxtaposition of views made a lasting impression on the Chancellor.

When a similar entourage visited Morinville, the Chancellor was prepared to explain to residents how the University is

using technology to meet students' needs. Before that could happen, the residents briefed their guests as to how they had planned and contributed additional resources to the provincial allotment for the construction of a new high school, a school that would include several computer labs, a television network and a fibre optics network, the first such network in a high school in the province, according to Ed Smith, the school districts' technical coordinator.

"That shook me!" said the Chancellor. "The people were extremely pleased we had come out ... but they had taught us a very important lesson."

The Chancellor says there are misconceptions in both small-town Alberta and at the University, and that the Senate has made a commitment to clearing up some of those misconceptions.

These small groups have visited Onoway, Fort Saskatchewan, Morinville and Coronation. The visits are typically informal. University officials dine with community leaders, and then public meetings are held, at which University information is provided and people ask questions. "If we can't answer their questions, we make a commitment to get them answers," explains the Chancellor.

"It's really another example of an outreach activity. These will be important for the future of the University because if the University can't get widespread support from the community, it won't get sufficient funding from the government."

The Chancellor says he's in an advantageous position; many people see him as an

impartial spokesperson, with no particular axe to grind. And, therefore, they're able to speak openly and frankly about the University, its service to students, and its future.

The Chancellor explains to small town residents that the recently released Strategic Planning Task Force report, "Degrees of Freedom", is worth reading and that it is in their interest to comment on the report.

Once a year, the entire Senate meets off-campus, and for the last three years it has held meetings in downtown Edmonton. But Senators felt the smaller communities were not being reached. At the same time, the cost of taking 62 people around the province is prohibitive, the Chancellor says. The small groups are seen as a good way of reaching the smaller communities.

NASA trims its budget

The Non-Academic Staff Association last week chopped \$110,000 from its 1993-94 budget.

At the Association's annual general meeting, members reviewed the budget line by line in response to a motion by Rod Wolfe (Physical Plant). Wolfe contended that because there had been a proposed increase in excess of 60 percent over last year's budget (from \$498,751 to \$806,800), the 1993-94 budget should be rejected and the executive be directed to return with a budget not exceeding \$550,000, a 10 percent increase over last year's budget.

Wolfe also said there was no point budgeting for \$800,000 when NASA has never spent more than \$500,000 in any one year.

The (office) staff salaries/benefits account absorbed the biggest cut: from \$360,000 to \$300,000.

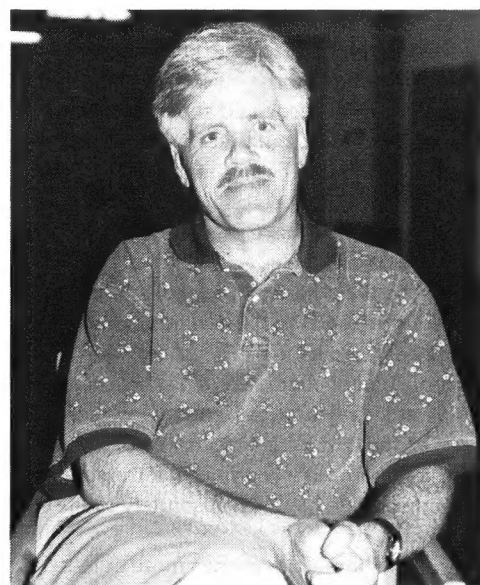
A motion by Jim Easton (Computing Science) to amend the association's dues structure was carried. Effective immediately, the rate will be lowered from .75 percent to .6 percent of pay scale. A \$16 per month maximum will be added. People not eligible for benefits, for example, part-time and temporary staff, will pay half of this rate.

Easton pointed out that in the last two years, in a climate in which virtually all organizations are lowering their spending, NASA has increased its budget in excess of 60 percent. "During this time most members have found that their dues have increased substantially and in some cases up to five times as much. This is not justifiable."

Later in the three and a half hour meeting, Easton spoke to "public relations," an item that he had asked be added to the agenda. He expressed displeasure with NASA's series of advocacy/public awareness advertisements, saying he found them to be confrontational and bordering on libel. Easton moved that the executive of NASA not publish any more ads of this nature. Marion Broverman, NASA's Bylaws Chair, took the opposite view, saying she didn't care what the ads said as long as they made people aware of what's going on at the University. There was support for both opinions, however, the motion died for lack of a quorum.

In other NASA news, Art Clarke, a building superintendent in the Department of Physical Plant, was elected Vice-President, and it was made known that a "memorial rally for Printing Services" will take place outside University Hall 7 June at noon.

Trehearne named Acting Dean of Student Services



Fran Trehearne is about to start a six-month term as Dean of Student Services.

Fran Trehearne has been appointed Acting Dean of Student Services. His term of office is from 15 June to 31 December 1993, unless the selection committee is able to pinpoint a successor to the former Dean, Peter Miller, in the interim.

Trehearne said he was asked by Vice-President (Student and Academic Services) Lois Stanford to take on the position, and he thinks his familiarity with the University's Code of Student Behavior, and his previous experience with student appeal mechanisms figured in that action.

"I'm really flattered to be asked, but I see it as a six-month assignment and can't really

talk about taking Student Services in any particular directions. It's a caretaking role," he commented last week.

Trehearne did say that he feels he brings to the position a "sense that students can be among the least powerful members of our community. As such we may not always think carefully about individual and collective student needs, or the issues of fairness and equity as they apply to students."

"It would be interesting," Trehearne said, "to have the University, including its students, engage in some collective thinking about what would constitute a healthy relationship with students. The current relationship is defined primarily by the individual interactions students have with staff and faculty and may not always reflect what we would like. What differences would it make, for example, if we were to decide as a community that in all interactions with students we will show respect for the person?"

Trehearne is Director of the University's Office of Human Rights, and will continue in that capacity. OHR staff are relatively new and arrangements will be made so they can have access to Trehearne for a part of each day.

Trehearne started at the U of A as a student advisor, offering advice, referral and direction to students who were experiencing difficulties with either the University's bureaucracy or the student/teacher relationship. He has also been Associate Director of the Engineering Placement Office and Executive Assistant to the Dean of Arts. A two-year partial secondment (1982 to 1984) saw him act as Administrative Officer for Student Discipline.

ALBERTA CENTRE FOR WELL-BEING FEATURING ANOTHER LEADING SCIENTIST

A public lecture will be given by Neville Owen, Department of Community Medicine, University of Adelaide, called "Healthier Work Environments and Healthier Behaviours: Some Lessons from Smoking Bans and Workplace Intervention Trials in Australia."

Dr Owen is regarded as one of the world's leading behavioural scientists. His lecture is sponsored by the Alberta Centre for Well-Being and will be delivered 8 June at 3 pm in E-121 Van Vliet Centre.

Dr Owen will also present a research seminar titled "Health Psychology, Behavioural Epidemiology and Community-Wide Initiatives to Promote Health." The seminar will take place 8 June, from 9 to 11:30 am, in E-120 Van Vliet Centre.

Retiring staff honoured by Board

From Abboud (Georgette) to Young (Len), 136 retiring academic and support staff were bade farewell at the annual retirement function organized jointly by the Board of Governors and the Office of Public Affairs.

Following the 25 May dinner at the Faculty Club, each person heard one of nine presenters (Mary O'Neill, Frank Coughlan, Tom Powrie, Graham Lock, Anita Moore, Len Leibel, Randy Boissonnault, Elmer Brooker and Ed Makarenko) recall a facet or facets of their University career and they were then given a memento and hearty thanks.

As the evening drew to a close, Board of Governors Chair Stan Milner sprang a surprise. The names of all retiring staff were placed in a box and there was a draw for three travel certificates valued at \$1,500 each. Helen Biltek, Werner Larsen, and Gordon Wormsbecker lucked out and accepted their prizes from Milner.

Breton Plots prominent among University's assets

"Forages - Underrated Crops" is the theme for this year's Breton Plots Field Day. The event will take place 30 June from 10 am to 4 pm.

Speakers from Alberta Agriculture, Food and Rural Development and Agriculture Canada, Lacombe, will present talks on forages. Weather permitting, plot tours will be conducted in the afternoon. Lunch will be available at the site.

The Breton Plots are some of the oldest long-term research plots in the world (this year, the Department of Soil Science is celebrating 64 years of experimental work at site). Located about 100 km southwest of Edmonton, west on Highway 39 and south on Highway 20, the Breton Plots contain Gray Luvisolic (wooded) soils which are low in sulphur, nitrogen and organic matter. While the plots were originally designed to find a system of cropping suitable for Luvisolic soils, they now serve a more important function of showing how various cropping practices have affected the soil.

"In these days of renewed concern about soil degradation and sustainable agriculture the Breton Plots have much to tell us," says Jim Robertson (Soil Science).

University's biomedical researchers hopeful new MRC-PMAC initiative will support more research

'Health partnership' expected to enhance biomedical research and training across the country over next five years

Biomedical researchers at the University of Alberta are hopeful that a major new initiative by the Pharmaceutical Manufacturers Association of Canada and the Medical Research Council of Canada will support some of their work here in Edmonton.

Last month, PMAC and MRC announced the creation of a new "Health Partnership" to enhance support for biomedical research and training across Canada over five years. The program is expected to pump about \$200 million, by the member companies of PMAC, into medical research and training at health sciences faculties.

It's anticipated that the partnership will support studentships, fellowships, scholarships in research and training, the establishment of clinical networks, chairs in specialized disciplines at universities and research development grants.

According to the Faculty of Medicine's Associate Dean (Research) Joel Weiner, some of the money will end up in University of Alberta researchers' hands. "There'll be more studentships and postdoctoral fellowships available, and we hope to benefit from that," said Dr Weiner. It's estimated that about 25 new positions will be created across the coun-

try over five years. Dr Weiner is hopeful some of those will be at the U of A.

Faculty of Pharmacy and Pharmaceutical Sciences Richard Moskalyk said, "It's obviously an additional source of research money for us." He pointed out that the program emphasizes university-industry partnerships, and said that he would be discussing the new program with the Faculty's Associate Dean (Research) to determine how the Faculty can benefit from the program.

Dr Weiner believes the U of A is well positioned to compete for the possible establishment of a clinical trials centre in Edmonton, particularly considering the recent establishment of the Health Care Quality Outcomes Research Centre. "We don't know where those regional centres will be located, but we'll certainly be in the running."

"This is the first good news in a long time," says Dr Weiner, who was not pleased that the recent federal budget had cut granting councils' budgets. The biomedical research community is now waiting for an announcement about the future of the centres of excellence. U of A researchers are heavily involved in the bacterial diseases and protein

engineering centres, and are anxious to learn to what extent they'll continue to be supported.

MRC President Henry Friesen says the new initiative represents a unique Canadian model for the enhancement of biomedical research. "It will provide a vehicle to guarantee excellence and relevance in the support of research in Canada."

"This [new] partnership has the potential not only to help promote health through research, but to enhance Canada's competitiveness as an attractive location for global research investments," says Federal Health Minister Benoit Bouchard.

PMAC President Judy Erola states, "The establishment of the partnership reflects the new environment for pharmaceutical research in Canada. Because the industry now has a much more level playing field, and can now make longer term decisions, we feel that the time is appropriate to build on the high degree of collaboration between academia and industry established through the very successful university/industry program administered by MRC."

PMAC represents 64 brand-name pharmaceutical companies in Canada.

Murder, they wrote

Two sociology professors publish Deadly Deeds: Murder in Canada

No one had ever written an overview of homicide in Canada, so sociology professors Bob Silverman and Leslie Kennedy decided they would.

"This kind of overview is very useful if you want to know something about a phenomenon," Dr Silverman says of their recently published book titled *Deadly Deeds: Murder in Canada*. "Murder is a fairly rare phenomenon in Canada; there are only about 600 or 700 a year.

"People are fascinated by murder and a lot of their perceptions about murder come from US television." One of the things the authors do is show that homicide patterns in Canada are different from those in the US.

Asked whether they wrote the book, in part, to dispel some mythology about murder, Dr Silverman says, "I don't think we wrote it for that reason, but I think we've done that by looking at the facts. For example, people fear that if they're going to be killed, they're going to be killed by a stranger. The fact is you have a far higher probability of being killed by someone you know than by a stranger. In Canada, that's higher than in the US."

Another example: "There's a lot of hype about homicide against females going up, and we've shown that it's been stable since the mid-1970s."

Drs Silverman and Kennedy—both criminologists in a department known for its criminology expertise—are hopeful intelligent lay readers will want to read the text. "It's not meant to be a trade book, and we've kept away from technical language," he says. Undergraduate criminology students will use the text. Furthermore, says Dr Silverman, pre-publication reviewers suggested the book, published by Nelson Canada, would serve as a reference book on murder in Canada for some time.

This 1993 book is the première book in The Nelson Crime in Canada Series. Dr Kennedy is one of the series editors.

Deadly Deeds was based primarily on Statistics Canada data. "We had Statistics Canada

run data, put together in a format which simply hadn't been done before," explains Dr Silverman. "There are other sources as well." For example, the information on Clifford Olson and Marc Lepine was gathered from the popular and academic press.

Based on their own previous work and other researchers' work, the authors knew to some extent what they were going to find. But their analysis uncovered some interesting facts. "We found out that elderly victims of homicide tend to be victims in theft-related homicides at a much higher proportion than anybody would have predicted," Dr Silverman told *Folio*.

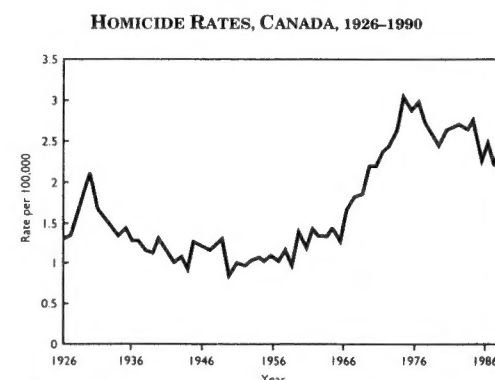
And there has been a lot of speculation about the trends in spousal homicide. "Spousal homicide has been declining as a proportion of all homicide. But if you look only at legally married couples—which may not be the best thing to look at, but it's one of the few you can—you find that the spousal homicide rate has been absolutely stable over 30 years.

"The homicide rate has more or less declined since the mid-1970s," Dr Silverman says. (It went up last year, which isn't in the book.) The homicide rate among Indians is about 10 times the rate of the rest of the population at various points in history. "They are the most disadvantaged group in the country, and that translates into many social ills—the homicide rate being only one of those."

According to their study, Drs Silverman and Kennedy found that shooting is the most popular means of killing in Canada. "Canadians use rifles and shotguns," says Dr Silverman, noting that Americans tend to use handguns. Stabbing is number two, but it varies. For example, in spousal homicide wives use knives most often. Shooting, stabbing and beating account for 85 percent of all murders in Canada.

Dr Silverman concludes that within Canadian society, there are different values placed

on human life. "But in general I think the value placed on human life is still very strong. If you look to our neighbours to the south, you see some pockets—especially those involving the drug trade—where the value of human life has become meaningless."



Source: Statistics Canada, 1983; Canadian Centre for Justice Statistics.

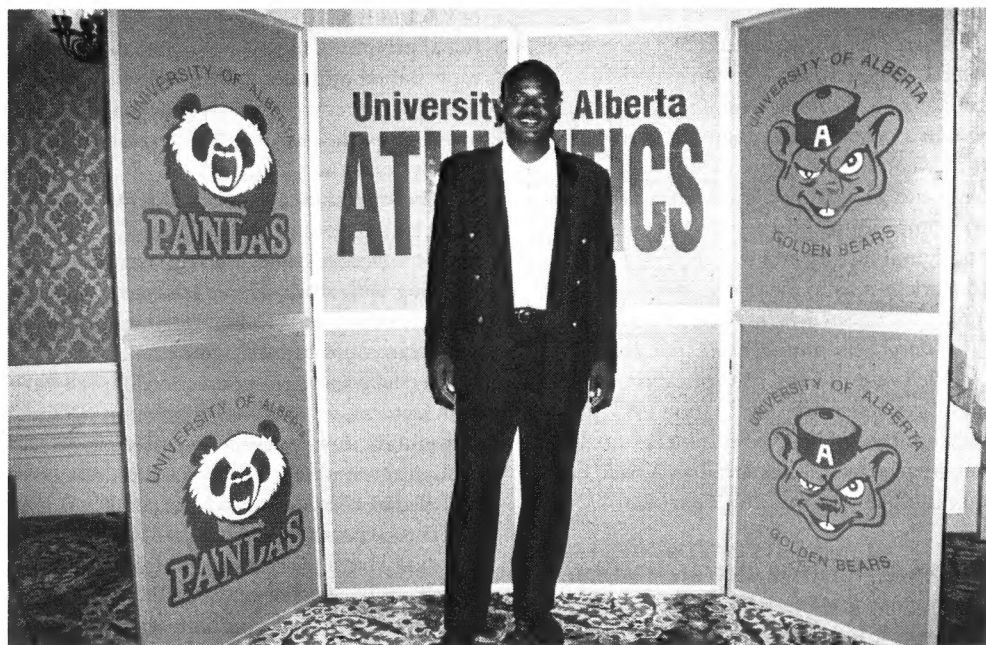
NEIL MADSEN HONOURED VIA SYMPOSIUM ON MOLECULAR ENZYMOLOGY

The Department of Biochemistry is sponsoring a symposium on molecular enzymology in honour of Neil Madsen. The symposium will be held 7 and 8 June, 8:45 am to 4:45 pm each day, in 2-27 Medical Sciences Building. Distinguished speakers include EG Krebs, 1992 Nobel Laureate; protein crystallographers RJ Fletterick, SR Sprang, J Sygusch, MNG James and PMD Fitzgerald; biochemists WA Bridger, DJ Graves, JH Wang and SG Withers.

Financial support from the Alberta Heritage Foundation for Medical Research and the University of Alberta is gratefully acknowledged.

'An Evening with Warren Moon' means happy days for Golden Bears

Rodney Gitzel



Warren Moon returned to Edmonton for the first time in 10 years for the Golden Bears fundraising dinner.

He was top gun among Canadian Football League quarterbacks for several seasons, he continues to star in the National Football League and he's paid an astronomical salary. Nice to know, then, that Warren Moon's head and his helmet are still a comfortable fit.

The former Eskimo great, who now launches passes on behalf of the Houston Oilers, returned to Edmonton 27 May at the invitation of Bears coach (and former teammate) Tom Wilkinson and the Golden Bears Football Alumni Association. Moon's normal fee for attending events of this nature outside Houston is \$10,000. He waived that fee and his presence at "An Evening with Warren Moon" resulted in the raising of several thousand dollars for the Golden Bears football program.

"I'd say it [the fundraising dinner] went beyond our expectations because of the limited time frame," commented Dave Rowand, president of the Golden Bears Football Alumni Association. Moon has a busy appearance

schedule, much of it pertaining to charity work in Houston and other cities in the US. "No one else in the world except Tom Wilkinson could have brought Warren here," Rowand said. However, once a date had been agreed upon the alumni had only three and a half weeks to make all the arrangements, he added.

Eight hundred people attended the \$100 a plate dinner at the Edmonton Convention Centre, and Rowand said, "We hope to make something in excess of \$50,000."

Rather than the standard head table format, the dinner featured a "Moon in the round" arrangement, complete with a 20-minute talk by the renowned quarterback, a video of him and former Golden Bears players in action, and a question and answer session with Moon and dinner guests.

Rowand said the dinner is the first of what the Bears alumni hope will become an annual event bringing top sports stars to the city in support of the Golden Bear football team.

TALKS

ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

8 June, 4 pm

Robert D Specian, professor, Departments of Cellular Biology and Anatomy and Biochemistry and Molecular Biology, Louisiana State University School of Medicine, Shreveport, Louisiana, "An Epithelial Response to Mucosal Injury." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

BOTANY

8 June, 10:30 am

Shunguo Liu, "A Chemosystematic Study of *Kalmia* L (Ericaceae) Using Flavonoid Characters." M-149 Biological Sciences Centre.

LICENSING EXECUTIVES SOCIETY

10 June, noon

Anthony E Harckham, president, Ordino Inc, "Licensing From a Business Perspective." RSVP by 8 June to Joan at 448-7326. Advanced Technology Centre, Suite #134, 9650 20 Avenue.

NURSING

4 June, noon

Varsen Aghabekian Shahin, assistant professor and director, Department of Nursing, Al-Quds University, Occupied West Bank, "Challenges for Nurses in Primary Health Care in the Occupied West Bank." 3-114 Clinical Sciences Building.

PERINATAL RESEARCH CENTRE

8 June, noon

Marek Radomski, Department of Pharmacology, Wellcome Research Laboratories, Beckenham, Kentucky, "Nitric Oxide—Ubiquitous Mediator and Effector Molecule." 2J4.02 Mackenzie Health Sciences Centre.

EVENTS

EXHIBITIONS

CLOTHING AND TEXTILES COLLECTION

Until 18 June

"Changing Suit: The Evolution of Men's Business Wear 1955-85"—an exhibition of men's wear from the collection. Hours: Monday to Friday, 8:30 am to 5 pm. Basement, Home Economics Building.

EXTENSION CENTRE GALLERY

Until 18 June

"A + D = 400"—an exhibition of selected 92/93 400 level undergraduate students' work from the Department of Art and Design. Gallery hours: Monday to Friday, 8 am to 4 pm. Information: 492-3034. 2-54 University Extension Centre.

MCMULLEN GALLERY

Until 3 July

"Contributions from the Shadow"—an exhibition featuring the paintings, drawings, sculpture, photography and fibre art of Albertans who have had or are still coping with a mental illness. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm, evenings subject to availability of volunteers. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

MUSIC

DEPARTMENT OF MUSIC

17 June, 8 pm

Bachelor of Music student recital—Marilyn Golletz, soprano. Convocation Hall.

19 June, 8 pm

Master of Music student recital—Greg Caisley, piano, performing with his trio. Convocation Hall.

28 June, 8 pm

Doctor of Music candidate recital—Stillman Matheson, organist. All Saints' Cathedral, 10039 103 Street.

Construction of Timms Centre for the Arts under way

Expected to be completed in early '95

Construction of the new Timms Centre for the Arts is now under way. The approximately \$11.25 million contract has been awarded to Granville Constructors Limited.

The general contractor is expected to be done by 1 September 1994. "As soon as they are finished, we'll install all the theatre equipment," says Planning and Development's senior development officer, Alan Palmer. "That should be finished in January '95."

Palmer, who will oversee and manage the work on behalf of the University, said last week the building will be simple and functional. The centrepiece will be the 300-seat theatre. That will replace the old Studio Theatre the Drama Department once used at Corbett Hall, which was given over to the Faculty of Rehabilitation Medicine.

The department is using Myer Horowitz Theatre at SUB on a temporary basis.

The Timms Centre for the Arts will be built directly south of the Fine Arts Building on 112 Street. It will include a theatre lobby costume storage rooms, prop storage areas, dressing rooms, rehearsal hall, smaller theatre area, teaching spaces, food preparation area, theatre manager's area, and concession area.

There will be 175 parking stalls underneath the building.

The Timms Centre for the Arts will be connected by a second level walkway to the Fine Arts Building. It will be completely accessible for the disabled. A curved glass, two-storey wall will form the southwest corner of the building; the building's main entrance will be on 112 Street.

It (The Timms Centre) is a highly specialized facility, said Palmer, but a lot of the

specialty equipment related to lighting and sound will not be visible. The building will be connected to an existing service tunnel that is south of the Fine Arts Building and that contains steam, electricity and water.

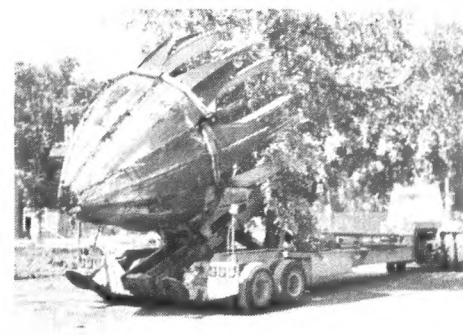
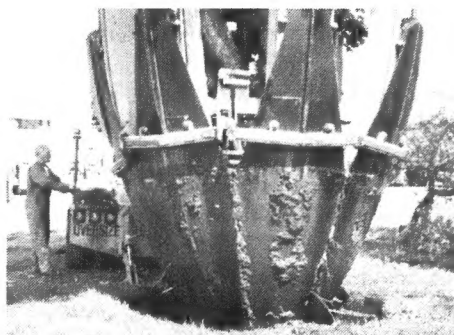
The architectural firm is Brinsmead Ziola Associates, the same firm that was involved in the Earth Sciences Building renovations in the early '80s.

Palmer said that during part of the construction the east sidewalk on 112 Street will likely be out of service. "That's going to happen because the building's constructed so close to the property line." It's unlikely there will be any major traffic disruptions during construction, however.



The old switcheroo

In cooperation with the University's Grounds Division, Holt Tree Spades Inc successfully moved a 50-year-old flowering crab tree from the Timms Centre for the Arts construction site to the northwest side of the Education complex. The replanting, a brief but delicate operation which took place last week, was suggested by Jean Young (Elementary Education). It's crucial that care be exercised in the vicinity of the tree and that winter 1993-94 not be too severe, said Grounds Manager Wayne McCutcheon.



POSITIONS



The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

ACADEMIC

ASSISTANT DIRECTOR, ENVIRONMENTAL RESEARCH AND STUDIES CENTRE

The Environmental Research and Studies Centre (ERSC) acts as a clearing house on environmental research information for the University of Alberta staff, students, funding agencies, the media and the public, and provides an initial academic contact for external research requests. The ERSC also promotes communication and linkages among the University and governments, the private sector, other educational institutions and the public-at-large on environmental research needs and issues.

Reporting to the Director, ERSC, the Assistant Director (AD) is accountable for proactive problem solving, efficient administration for the Centre as well as effective day-to-day support to the ERSC Director. The AD acts as a resource person for the ERSC by reviewing, analyzing and making appropriate recommendations for a wide variety of requests, projects and proposals from within and outside the University community. The AD must be qualified and able to represent the ERSC and stand in for the Director whenever necessary. Other duties of the AD include: interaction with students; coordination of interdisciplinary programs, conferences and lecture tours; supervision and hiring of other employees of the ERSC; budget management; fundraising; liaising with government, industry, academic institutions, and the public on environmental issues; serving on appropriate University committees; and other related duties.

The incumbent must be self-motivated; have excellent organizational, interpersonal, management, writing, computing (DOS and Macintosh) and community/public presentation skills; be able to quickly develop an effective understanding of the University of Alberta and be able to develop a strong network of contacts outside the University. The incumbent must hold an earned undergraduate degree and the experience necessary to function effectively in an academic environment.

Salary range: approximately \$35,000 to \$40,000 per year. This is a trust-funded position, with funds currently allocated to 30 June 1995.

Starting date: September 1993 (negotiable).

Résumés with three references should be forwarded by 30 June 1993 to: Dr EE Prepas, Director, Environmental Research and Studies Centre, CW-401L Biological Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E9.

FACULTY SERVICE OFFICER II, DEPARTMENT OF PHYSICS

The Department of Physics invites applications for the position of Faculty Service Officer II. Candidates must have a PhD or master's in Physics or Geophysics. Experience in undergraduate student counselling at a postsecondary level is an asset. A major responsibility is to advise current and prospective physics students in the Honors, Specialization and General programs. The FSO is ex-

pected to play a leadership role in the evolution of new undergraduate laboratory projects, particularly with respect to the integration with modern computer tools. Experience working in an experimental research environment is required. The salary level is dependent upon the qualifications with a minimum of \$40,035 per annum.

Applications should be submitted with *curriculum vitae* and the names of three referees by 15 July 1993 to: Chair, Department of Physics, University of Alberta, 412 Avadh Bhatia Physics Lab, Edmonton, Alberta T6G 2J1.

In accordance with Canadian Immigration regulations, this advertisement is directed to Canadian citizens and permanent residents.

COORDINATOR, TRANSITION YEAR PROGRAM, OFFICE OF NATIVE STUDENT SERVICES

The Transition Year Program (TYP) is a one-year University credit program offered and coordinated by the Office of Native Student Services for aboriginal students at the University of Alberta. Eighty students will be admitted into the program during the 1993-94 academic year. Students who complete this program successfully are admissible into one of the following Faculties with a complete transfer of all credits earned during the first year: Arts, Science, Native Studies, Engineering, Business, Nursing, Education, Education or Agriculture and Forestry.

Responsibilities: The Coordinator reports to the Director and is responsible for the overall administration and coordination of TYP, including student recruitment, selection and admission, registration and program planning, referrals, liaison with all departments on campus including instructors and tutors, and planning and coordinating academic and support services and preparing and writing reports. The Coordinator also performs an advocacy role and is responsible for ensuring the success and effectiveness of this program.

Qualifications: Minimum of a bachelor's degree; similar experience—program planning/academic counselling—within a postsecondary setting; knowledge of university admission and support systems and procedures; excellent interpersonal and communication skills; knowledge of aboriginal communities and agencies; sensitivity to aboriginal history and culture; and an ability to work as a team member. Above all, the incumbent needs to be an initiator and take on tasks as they develop.

Appointment date: as soon as possible.

Salary: Minimum \$31,184 per year.

Please send letter of application, résumé and three references, by 25 June 1993, to: Director, Office of Native Student Services, University of Alberta, 124 Athabasca Hall, Edmonton, Alberta T6G 2E8. Fax: (403) 492-1674.

ASSISTANT STUDENT SERVICES ADVISOR, OFFICE OF NATIVE STUDENT SERVICES (ONE YEAR TERM)

The Office of Native Student Services is responsible for providing academic and support services to approximately 400 aboriginal students on campus. This number is expected to increase in light of the University's Aboriginal Student Policy which calls for all Faculties to increase their enrollment of aboriginal students. The incumbent will be expected to play a major role in this growth as part of the NSS team.

Responsibilities: Under the guidance and direction of the Director, the Assistant Student Services Advisor will assist with identifying, developing and coordinating effective academic, personal and cultural support services that meet the unique needs of prospective and

current students at the University of Alberta; assist with the coordination of the Transition Year Program; assist with community liaison; and organize and coordinate the Student Ambassador Program.

Qualifications: Minimum of a bachelor's degree or equivalent; proven experience in a similar role, working with aboriginal students within a postsecondary setting; knowledge of the University's admission and support systems and procedures; knowledge of aboriginal communities and agencies; sensitivity to aboriginal history and cultures; and an ability to work as a team member.

Appointment date: as soon as possible.

Salary: Minimum \$30,000 per year.

Please send letter of application, résumé and three references, by 25 June 1993, to: Director, Office of Native Student Services, University of Alberta, 124 Athabasca Hall, Edmonton, Alberta T6G 2E8. Fax: (403) 492-1674.

INTERNAL AUDITOR, INTERNAL AUDIT

Position description: The Internal Auditor is responsible for conducting operational and financial audits of the University's academic and service functions, in which internal controls and systems, compliance with established policies and the reliability of management information are evaluated and recommendations for improvements are offered.

Qualifications: Applicants must possess a university degree and an accounting designation with a minimum of 2 to 3 years of direct audit experience. Applicants must have well developed written and oral communication skills and a good working knowledge of microcomputers. The incumbent should be able to exercise tact and diplomacy in dealing with auditees.

Rank and salary: The Internal Auditor reports to the Manager of Internal Audit. Salary level will be commensurate with qualifications. This position has a one-year term with the possibility of extension. This position has become vacant due to an internal promotion.

Applications: Applications should be forwarded to: Allan Pedden, Acting Manager, Internal Audit, 234 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8. Deadline for receipt of applications is 21 June 1993.

COORDINATOR, SEXUAL ASSAULT CENTRE (HALF TIME), UNIVERSITY OF ALBERTA

The University of Alberta is seeking an individual to serve as Coordinator of its newly established Sexual Assault Centre.

The University is committed to the creation of an environment which ensures the safety, security, well-being and growth of all of its members. The Sexual Assault Centre is a reflection of this commitment. Through educational programming and through the provision of victim services, resources and information regarding sexual assault, it will work towards the creation of a safer and healthier campus.

Reporting to the Dean of Student Services, the incumbent will: 1) identify and coordinate existing on-campus resources which may be of assistance to the Centre in the accomplishment of its objectives; 2) create and deliver educational programs regarding sexual assault, date rape, dating attitudes and stereotypes; 3) serve as a first contact for victims of sexual assault; and 4) provide appropriate referral and follow-up for those victims.

The successful candidate will possess a bachelor's degree or an equivalent combination of experience and training. Experience working with students in a postsecondary environment will be an asset. Desirable work experiences could include some or all of the following: advocacy, program coordination, human services, educational programming and community development. Experience as a change agent working with sensitive issues will also be considered an asset.

The successful candidate will demonstrate the ability both to create an environment in which survivors of sexual assault will feel safe and supported and to facilitate discussions of sexual assault in a forthright manner. An understanding of both the personal and social dimensions and contexts of sexual assault is essential.

This is a half-time contract position for one year, with the possibility of renewal dependent on funding. Appointment salary range is \$19,000 to \$25,000 per annum.

Individuals interested in this position may apply, in confidence, by 4 pm, 25 June 1993, to: Dr Lois M Stanford, Vice-President (Student and Academic Services), 3rd Floor, University Hall, University of Alberta, Edmonton, Alberta T6G 2J9.

Letters of application should be accompanied by a *curriculum vitae* and the names of three references.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services, Assiniboia Hall, telephone 492-5201. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly *Employment Opportunities Bulletin*.

MEDICAL LASER POSITION

An academic track position is available in the Department of Electrical Engineering for a person interested in laser phototherapy. Areas of interest will include modelling light distribution in tissues, and interactive treatment planning in animal tumor models. Applicants will have either a BSc or higher degree in Engineering, Physics, or Computer Science. Experience in the biological sciences would be an asset.

Interested applicants should provide a résumé of academic experience and research interests to: Dr John Tulip, Department of Electrical Engineering, 136 Civil/Electrical Building, University of Alberta, Edmonton, Alberta T6G 2G7.

Intelligence engineering conference

Intelligence engineering is the practical application of artificial intelligence, control engineering and complex information processing techniques to solve engineering problems that have proven too complex for traditional methods.

On 24 and 25 June people from a broad range of sectors, for example, oil and gas, chemicals, pulp and paper, will meet on campus to share advancements in the field and learn what developments are occurring in their industry, and in other industries as well.

Through presentations and round table discussions, participants will review the Intel-

ligence Engineering Lab's activities and consider opportunities for future research, technology transfer, and industry/government partnerships.

"The need to learn from other industries cannot be over stressed," says conference chair Jim Zurcher. "There is value in learning how proven solutions in one sector can be reapplied in another. The forestry industry can benefit from work sponsored by the oil industry into mobile equipment reliability. Chemical industry processes can benefit from the application of the operator advisory systems sponsored by the forestry sector."

ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All enquiries welcome, 492-7044.

RENT - Belgravia, near University. Furnished, four bedrooms, study, fireplace, deck. \$1,200/month. September 1993 - summer 1994. 433-4439.

RENT - Hearthstone, furnished townhome. 20 June - 1 September 1993. \$900/month. No smokers, no pets. 435-4388.

RENT - Attractive executive home, Strathearn Drive. Spacious studio, view, furnished. Sabbatical 1993 - 1994. Phone 469-4992.

RENT - Glenora. Fully furnished, two bedroom bungalow. Fireplace, 1 1/2 baths, double garage, fenced yard. No pets. Available 1 July, \$850, 451-6178.

ST ALBERT - Executive lifestyle, family neighbourhoods, extensive parks and recreational facilities, just a short drive from the University. For ethical, enthusiastic service, call Ginny Morgan at Royal LePage Realty, 458-5595.

RENT - Garneau, six bedroom bungalow. Lots of parking, two bathrooms, two fridges, washer and dryer. \$1,500/month. Available 1 July, 436-7371.

RENT - Riverbend, townhouse (Hearthstone), three bedrooms, 2 1/2 bathrooms, fireplace, fully developed basement, garage. No pets. Nonsmokers preferred. \$900/month. 492-0816, 437-1095.

RENT - Old Strathcona, three bedroom, furnished main floor suite. Hardwood floors. Utilities included. Available 1 September. 434-6287.

RENT - Old Strathcona, two bedroom, private entry suite. Hardwood floors. Available 1 August. 434-6287.

RENT - Close, Grandin Station, one bedroom highrise. June possession, \$550. 479-6853/478-9060, leave message.

FOR SEASONAL RENT - Two bedroom cottage in Eagle Bay, BC, on shore of Shuswap Lake. Sleeps five, \$550 per week or \$600 with hot tub. No smokers, no pets, 458-2225.

SALE - Winterized, lakeshore cottage, Sandy Beach. 15 minutes west of Morinville. \$69,000 or best offer, 458-2225.

TO SHARE - Mature nonsmoking male to share pleasant bungalow, 15 minutes from University. Doug, 492-5724.

RENT - Glenora. Large, bright executive home, 3,200', five bedrooms, three baths, two fireplaces, double attached garage. Quiet landscaped yard. Large main, upper floor decks. Hot tub, new kitchen, appliances. 452-4976.

SALE - Belgravia, 1,300' semi-bungalow. Three bedrooms, south yard, hardwood. Excellent location, \$137,500. Ed Lastiwka, Royal LePage Realty, 446-3800, 437-7480.

SALE - House in Belgravia, quiet crescent, 15-minute walk to central campus. Renovated, four/five bedrooms, family room (fire-

place), eat-in kitchen, deck. 133' X 55' lot. Heated garage. 436-7363, no agents.

RENT - Suite, July/August (1-2 months). Traditional family home, gorgeous country setting, 20 minutes bus to University. Three large rooms, kitchenette, shower. Nonsmoking, 435-9208, call anytime (434-6022, message).

RENT - North Windsor Park. Furnished, two plus two bungalow. Very spacious, hardwood floors throughout. Quiet, treed lot. Available August/September (negotiable), one year. \$1,400/month, 439-0467.

RENT - Furnished four bedroom executive house for 1993 - 1994 school year. Close to Edmonton Southgate, 438-4416.

RENT - Millcreek Ravine, renovated 1,600', three bedroom home, 1 July, \$1,150, 432-7032.

SALE - By owner. Clareview condo, 5 minutes to LRT, 1,425', four bedrooms, family room, fireplace. Attached garage, five appliances, deck. \$86,900, 1 1/2 baths, 473-1659.

RENT - 1,140' bungalow near ravine. Quiet, mature neighborhood, close to the University, 481-9726.

RENT - Unfurnished, two-storey, four bedroom house. 1/2 block from Millcreek Ravine. One year, 1 August. Nonsmokers. No pets. \$1,100, 439-0705.

RENT - Belgravia, 1 July, three bedroom semi-bungalow. Five appliances, fenced yard, garage. \$1,000/month, 487-1862.

SALE - By owner. West end, three bedroom, townhouse. New lino, new paint. Close to shopping and bus to University. \$69,900. Rob, 489-6321.

SALE - Malmo Plains, split, excellent location to schools, shopping. Freshly painted, hardwood under carpet. Four bedrooms, 2 1/2 baths. Large, spacious floor plan. Appliances included plus double garage. \$148,900. Abe Hering Realty, 481-2950.

SALE - Pleasantview semi-bungalow with two bedroom basement suite. Older home with character. Newer kitchen, hardwood in living, dining, recently refinished. Freshly painted. Five appliances included. Single garage. Asking \$116,000. Abe Hering Realty, 481-2950.

SALE - Exceptional bargain. Large, family home in exclusive neighbourhood. Quiet location, south backyard. Jean MacKenzie, Spencer Realty, 435-0808.

SALE - By owner. University/Parkallen, custom-built, six year-old house, 1,608'. Double detached garage. Many extras, 10921 71 Avenue, 438-2959.

RENT - Glenora. Modern, one bedroom suite in hillside bungalow/ravine. Fully furnished, utilities included. Private patio. Responsible adults only. No pets. \$500/month, \$200 damage deposit. Available 1 July, 452-1447.

SALE - Westbrook Estates, Ironwood Place. Executive attached bungalow, 1,593' plus developed basement, three baths. Bordering on the golf course, near schools, beautiful condition. Marjorie King, Spencer Realty, 435-0808/435-0395.

SALE - Greenfield. Upgraded, four bedroom split-level home facing a park. French Immersion School nearby. Immaculate condition, over 1,800'. Double garage, \$169,500. Marjorie King, Spencer Realty, 435-0808/435-0395.

RENT - 11608 41 Avenue, bi-level house. Basement developed, double garage. 1 June, \$925/month. Schaaf Realty, 468-6307.

RENT - University area, four bedroom house. Formal living, dining rooms, family room, fireplace. Developed basement, double garage. 15 August, lease, \$1,800/month. Schaaf Realty, 468-6307.

SALE - House in desirable Laurier Heights, west end. Quick, easy access to University and downtown. Close to schools. Split-level design, four bedrooms, two bathrooms, fireplace. \$168,900, 483-2938.

RENT - Downtown, executive condo with river view. Totally renovated, two bedrooms, marble floors, hardwood too! \$1,200/month, immediate, Western Relocation, 434-4629.

RENT - Great home, outstanding location. Quiet area but close to everything, 15 minutes by bus to University. Great family home. One year, \$1,200/month, 1 August. Western Relocation, 434-4629.

RENT - Windsor Park. Great family home, a breath away from University. Four bedrooms, double garage. Available 1 August, lease, \$1,300/month. Western Relocation, 434-4629.

RENT - Ravine drive, two-storey with delightful European flavour. Renovated in excellent taste and perfect for entertaining. \$1,800/month, 1 August, lease. Western Relocation, 434-4629.

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MATURE, RESPONSIBLE COUPLE - with pet, seeking furnished apartment or house in University area, July - December or September - December. Call 435-1170.

ACCOMMODATION WANTED - for nonsmoking, professional male, southside. Doug, 492-5724.

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CONTRIBUTIONS FROM THE SHADOW

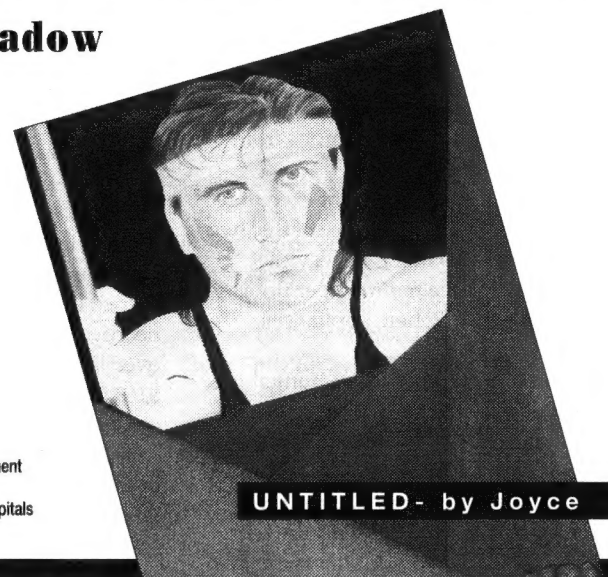
art from out of the shadow
of mental illness

MAY 1 to JULY 3, 1993

McMullen Gallery
University of Alberta Hospitals
Scheduled hours:
10 a.m. to 4 p.m., Mon. - Fri.
1 p.m. to 4 p.m., Sat. & Sun.
Call 492-8428 for possible
changes to schedule

Presented by:
Adult Development Centre
Alberta Health, Mental Health Division
Alberta Hospital Edmonton
Canadian Mental Health Association (ANCR)

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Alberta Health
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